

Summary of selected water-quality data from ground-water samples collected from February 1995 through December 2013 as a part of the *Equus* Beds Ground-Water Recharge Project.

[mg/L, milligrams per liter; DWA, drinking water advisory; SDWR, secondary drinking water regulation; <, less than; MCL, maximum contaminant level; µg/L, micrograms per liter; cols/100 mL, colonies per 100 milliliters; MCLG, maximum contaminant level goal]

Areal Assessment Index Wells (Shallow Monitoring Wells): IW-01A through IW-38A									
Compound or fecal indicator bacteria	Water-quality criteria	Number of Samples	Minimum	Maximum	Mean	Median	Percentage of Samples Detected	Percentage of Samples Exceeding Criteria	Percentage of Replicate Samples Exceeding Criteria
Sodium, dissolved (mg/L)	20 mg/L (DWA) <sup>a</sup>	607	11.1	330.0	84.0	60.6	100.0	94.4	97.2
Sulfate, dissolved (mg/L)	250 mg/L (SDWR) <sup>a</sup>	599	5.0	770.0	152.8	102.1	98.3	18.7	27.8
Chloride, dissolved (mg/L)	250 mg/L (SDWR) <sup>a</sup>	605	2.5	773.0	69.401*	*36.700	94.9	5.5	17.4
Nitrite plus nitrate as nitrogen, dissolved (mg/L)	10 mg/L (MCL) <sup>a</sup>	605	0.1	24.0	3.827*	*0.670	71.1	15.4	23.3
Arsenic, dissolved (µg/L)	10 µg/L (MCL) <sup>a</sup>	600	0.5	55.0	3.863*	*1.582	57.8	12.0	17.3
Iron, dissolved (µg/L)	300 ug/L (SDWR) <sup>a</sup>	607	0.3	40,700.0	2358.399*	*72.328	52.4	37.1	36.7
Manganese, dissolved (µg/L)	50 µg/L (SDWR) <sup>a</sup>	607	0.4	1,487.0	267.224*	*82.000	68.2	54.5	63.9
Total coliform bacteria (cols/100 mL)	0 cols/100 mL (MCLG) <sup>a</sup>	441	0.5	368.0	6.402*	*0.116	24.7	24.7	25.0
Fecal coliform bacteria <sup>c</sup> (cols/100 mL)	200 cols/100mL (MCLG) <sup>d</sup>	497	0.5	116.0	0.9	0.5	3.2	0.0	0.0
	2,000 cols/100mL (MCLG) <sup>d</sup>	105	0.5	24.0	0.9	0.5	4.8	0.0	0.0
<i>Escherichia coli</i> <sup>e</sup> (cols/100 mL)	262 cols/100mL (MCLG) <sup>f</sup>	136	0.5	37.0	0.8	0.5	2.9	0.0	0.0
	2,358 cols/100mL (MCLG) <sup>f</sup>	17	0.5	0.5	0.5	0.5	0.0	0.0	0.0
Atrazine herbicide	3 µg/L as an annual average <sup>a</sup> (MCL)	216	0.0	1.4	0.1	0.0	56.9	0.0	0.0
Triazine herbicide screen, dissolved (µg/L as Atrazine)	3 µg/L as an annual average <sup>a</sup> (MCL)	591	0.1	5.0	0.1	0.1	13.2	0.2	0.0
Alachlor (µg/L)	2 µg/L (MCL) <sup>a</sup>	212	0.0	0.0	0.0	0.0	2.8	0.0	0.0

<sup>a</sup> U.S. Environmental Protection Agency (2006)

<sup>b</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

<sup>c</sup> For fecal coliform bacteria, the primary contact recreation surface-water criterion of 200 cols/100mL was used from April 1 - October 31 (when most water-contact recreation occurs); from November 1 - March 31, the criterion of 2,358 cols/100mL was used.

<sup>d</sup> Kansas Department of Health and Environment (2001)

<sup>e</sup> For *Escherichia coli*, the primary contact recreation surface-water quality criterion of 262 cols/100mL was used from April 1 - October 31 for Class B (public access) stream segments; from November 1 - March 31, the criterion of 2,358 cols/100mL was used.

<sup>f</sup> Kansas Department of Health and Environment (2004)